

ELECTRONIC CIRCUIT SYSTEM, AND SIGNAL TRANSMISSION  
METHOD, TO IMPROVE SIGNAL TRANSMISSION EFFICIENCY AND  
SIMPLIFY SIGNAL TRANSMISSION MANAGEMENT

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ABSTRACT OF THE DISCLOSURE

10        An electronic circuit system has at least three macro circuits and a plurality of signal lines for connecting the macro circuits to one another into a loop. Each of the macro circuits includes a logic circuit and a memory circuit and has a plurality of input terminals and 15 a plurality of output terminals. Signals are transmitted through the loop in a single specified direction in synchronization with a clock signal. Each of the macro circuits receives the signals at the input terminals thereof, accepts the signals if the signals are destined 20 for the macro circuit, and transfers the signals to the output terminals thereof if the signals are not destined for the macro circuit. Even if the macro circuits simultaneously transmit signals, the electronic circuit system transmits the signals in the specified direction 25 through the loop in synchronization with the clock signal up to destination macro circuits.

10037366-0503150